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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,356	11/14/2003	Baoquan Chen	14414-013001	3327
26191	7590 05/04/2005		EXAM	INER
FISH & RICHARDSON P.C.			TRUONG, DUC	
PO BOX 1022	_		PETER	DADED MUNADED
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			1711	
			DATE MAIL ED: 05/04/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	10/714,356	CHEN ET AL			
Office Action Summary	Examiner	Art Unit			
	Duc Truong	1711			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status		·			
Responsive to communication(s) filed on <u>30 March 2005</u> . 2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) 21 is/are withdrawn f 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	rom consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is ol	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail D				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date 32904.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

6) Other: _

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

Claim 21 has been withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on March 30, 2005.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lau et al (6,313,185).

The reference discloses polymers having backbones with reactive groups used in crosslinking in that the reactive group in the backbone are included in a conjugate system. Especially polymeric strands comprise a poly(arylene ether) synthesized from a difluoroaromatic portion (claimed monomer B) and an aromatic bisphenol portion (claimed monomer A) in that the difluoroaroamtic portion of the poly(arylene ether) are modified in such a way that some difluoroaromatic portions carry a themolabile portion related to crosslink. (see Abstract and in the Figures).

In Figure 7, the reference discloses a synthetic scheme for producing a tetracyclone containing poly(arylene ether)

Further, in Example 3, the reference does disclose general reaction conditions for grafting a thermally labile component to a polymeric strand, in which 4-fluoro 4'-hydroxybenzene is reacted with ethylene glycol-poly(caprolactone) to produce 4-

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fluorobenzophenone endcapped thermolabile polymer which can then be incorporated into a poly(arylene ether) together with an aromatic bisphenol compound (see cols 13-14, Example 2-3).

The disclosure of the reference differs from the instant claims in that it does not disclose the claimed monomer D.

However, the reference does disclose the fluorobenzophenone endcapped thermolabile polymer which can be grafted to a polymeric strand and having the same functionality with the claimed monomer D. Therefore, it would have been obvious to one of ordinary skill in the art to modify the grafting component from the reference within the claimed monomer D since they have been shown to be effective in a similar system and thus would have been expected to provide adequate results. There is no showing of unexpected results derived from said modification.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Truong whose telephone number is 571-272-1081. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUCTRUONG PRIMARY EXAMINER